RTIP ID# *(required)*	SBDLS05
TCWG Consideration Date	**May 24, 2011**

Project Description *(clearly describe project)*

It is proposed to install traffic signals at Interstate 215 (I-215) / Palm Avenue interchange in the City of San Bernardino, San Bernardino County (see Attachment). The project scope includes; install traffic signals at two intersections northbound ramps/Palm Avenue and southbound ramps/Palm Avenue); eliminate southbound off free right turn lane; and construct curb ramps at curb return.

Type of Project *(use Table 1 on instruction sheet)*

Intersection signalization and channelization project

County San Bernardino	**Narrative Location/Route & Postmiles** SBd-215-PM14.1 **Caltrans Projects – EA#** 0M400; PN 0800020070

Lead Agency:

Contact Person	**Phone# (909)383-6385**	**Fax#**	**Email**
Tony Louka		(909)383-6494	Tony_louka@dot.ca.gov

Hot Spot Pollutant of Concern *(check one or both)* **PM2.5 x** **PM10 x**

Federal Action for which Project-Level PM Conformity is Needed *(check appropriate box)*

x	**Categorical Exclusion (NEPA)**	**EA or Draft EIS**	**FONSI or Final EIS**	**PS&E or Construction**	**Other**

Scheduled Date of Federal Action:

NEPA Delegation – Project Type *(check appropriate box)*

Exempt	x **Section 6004 – Categorical Exemption**	**Section 6005 – Non-Categorical Exemption**

Current Programming Dates *(as appropriate)*

	PE/Environmental	**ENG**	**ROW**	**CON**
Start				
End				

Project Purpose and Need (Summary): *(attach additional sheets as necessary)*

There have been numerous accidents at this intersection, with majority of these being “hit Object” accidents. The purpose of this project is to reduce the severity and number of hit object accidents by installing traffic signals. By installing traffic signals ay Palm Avenue and ramps intersections, Caltrans will enhance safety and improve the operation of the facility and reduce traffic delay.

Surrounding Land Use/Traffic Generators *(especially effect on diesel traffic)*

The project is located within the urbanized area of the City of San Bernardino with combination of residential, institutional, commercial and light industrial development. California State University San Bernardino is in close vicinity to the proposed project. Interstate 215 traverses in north south direction through densely populated urban areas of surrounding cities of Riverside, Colton, San Bernardino, and Highland serving local businesses, residents and school districts in the areas.

Opening Year: Build and No Build LOS, AADT, % and # trucks, truck AADT of proposed facility
MAIN LINE (Southbound)

Existing (2010): LOS C/B (AM/PM); AADT 33,500+31,700=65,200; Trucks 9%;

OPENING- (2011): LOS C/B AM/PM); AADT 34,500+32,700=67,200; Trucks 9%

RTP Horizon Year / Design Year: Build and No Build LOS, AADT, % and # trucks, truck AADT of proposed facility
MAIN LINE (Northbound)

HORIZON- (2030) LOS C/B (AM/PM); AADT 59,800+57,500=117,300; Trucks 10%

Opening Year: If facility is an interchange(s) or intersection(s), Build and No Build cross-street AADT, % and # trucks, truck AADT

NO-Build at Palm Avenue/NB On-%Off –Ramp year **2010, 2011** (**Stop sign**); LOS C (PM); AADT 19,884;TR% 6-8
NO-Build at Palm Avenue/SB On-%Off–Ramp/Kendall Dr. year 2010,2011(**SS**):LOS E (PM); AADT 8,400; TR% 6-8
NO-Build- On-Ramps/Off-ramp AADT year **2010**-5,600/6,900, **2011** 5,800/7,000, **2030** 9,000/11,000;;

Build at Palm Avenue/NB On-%Off –Ramp year **2011**(signalized); LOS A (PM)
Build at Palm Avenue/SB On-%Off –Ramp/Kendall Dr. year,**2011** (Signalized): LOS C (PM)
NO-Build- On-Ramps/Off-ramp AADT year **2010**-6,900/5,600, **2011**, 7,000/5,800, **2030** 11,00/9,000;;

RTP Horizon Year / Design Year: If facility is an interchange (s) or intersection(s), Build and No Build cross-street AADT, % and # trucks, truck AADT

Build at Palm Avenue/NB On-%Off –Ramp year **2030** (signalized); LOS B (PM); AADT 27,036; TR% 6
Build at Palm Avenue/SB On-%Off –Ramp/Kendall Dr. year,**2030** (Signalized): LOS E (PM); AADT 10,356; TR% 6

NOTE: TR%= trucks percentage in AADT; Kendall Dr. is one lane in each direction

Describe potential traffic redistribution effects of congestion relief *(impact on other facilities)*

The proposed project is intersection signalization project that aims not to increase capacity rather it will increase traffic operational efficiency and reduce delays and number of traffic accidents experienced at the intersections of freeway ramps both north and southbound ramps with Palm Avenue by installing the signal lights.

Comments/Explanation/Details *(attach additional sheets as necessary)*

According to the Transportation conformity Guidance for Qualitative Hot-spot Analyses in PM2.5 and PM10 Nonattainment and Maintenance Areas (page 25), this project is not a *project of air quality concern (POAQC)* under 40 CFR 93.123(b)(1)(i) and (ii):

- Intersection channelization project, traffic circles or roundabouts, Intersection signalization projects at individual intersections, and interchanges configuration projects that are designed to improve traffic flow and vehicle speeds, and do not involve any increases in idling..Thus , they would be expected to have neutral or positive influence on PM2.5 or PM10 emissions.
- Besides the proposed project (intersection signalization) traffic data(AADT, Truck % and LOS) provided above for Palm Avenue and Ramps intersection is less than Criteria for POAQC: AADT =>125,000 and Truck percentage = or > 8 % of (125,000)=10,000 trucks. The LOS of service criteria D,E, and F are not worsened with this project.(see reference below for POAQC criteria ;and example of project of air quality concern (POAQC) given at page 24 of the Guidance)-

REFERENCE:

Criteria for Projects of Air Quality Concern (40 CFR 93.123(b)(1)) – PM_{10} and $PM_{2.5}$ Hot Spots

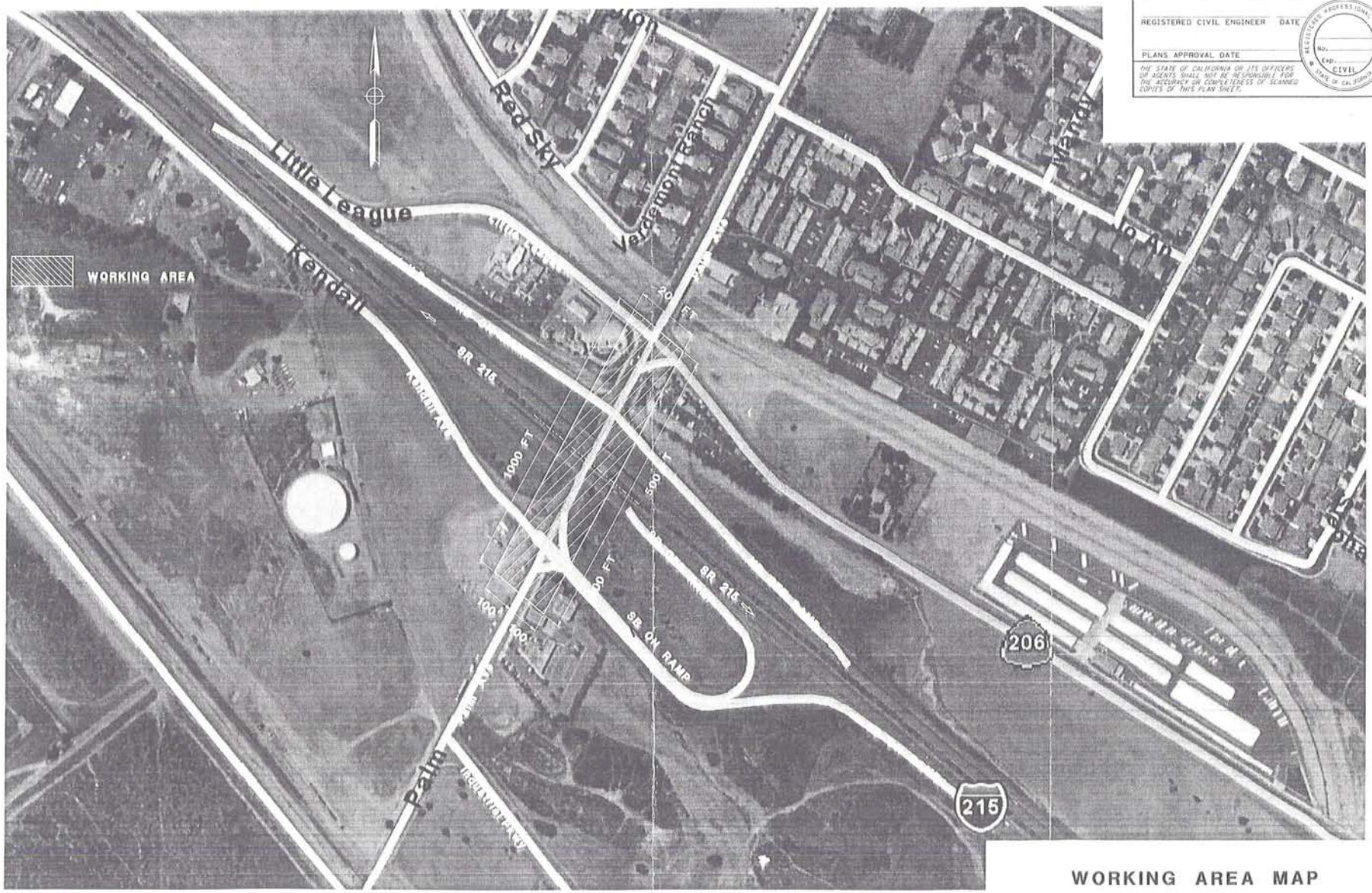
(i) *New or expanded highway projects that have a significant number of or significant increase in diesel vehicles;*

(ii) *Projects affecting intersections that are at Level-of-Service D, E, or F with a significant number of diesel vehicles, or those that will change to Level-of-Service D, E, or F because of increased traffic volumes from a significant number of diesel vehicles related to the project;*

(iii) *New bus and rail terminals and transfer points than have a significant number of diesel vehicles congregating at a single location;*

(iv) *Expanded bus and rail terminals and transfer points that significantly increase the number of diesel vehicles congregating at a single location; and*

(v) *Projects in or affecting locations, areas, or categories of sites which are identified in the PM10 or PM2.5 applicable implementation plan or implementation plan submission, as appropriate, as sites of violation or possible violation.*



WORKING AREA MAP

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBD	215	14.091	1	1

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

STATE OF CALIFORNIA -- DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN DIVISION

FUNCTIONAL SUPERVISOR: DU LU

CALCULATED/DESIGNED BY: DON D NGUYEN
CHECKED BY: MANOJ B HARIYA

REVISED BY
DATE REVISED

BORDER (45) REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s129459
DGN FILE => 0M4001 SURVEY REQUEST.dgn

CU 08260

EA 0M4001

DATE PLOTTED => 04 NOV 2010
TIME PLOTTED => 15:01

INDEX OF PLANS

SHEET NO. DESCRIPTION

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

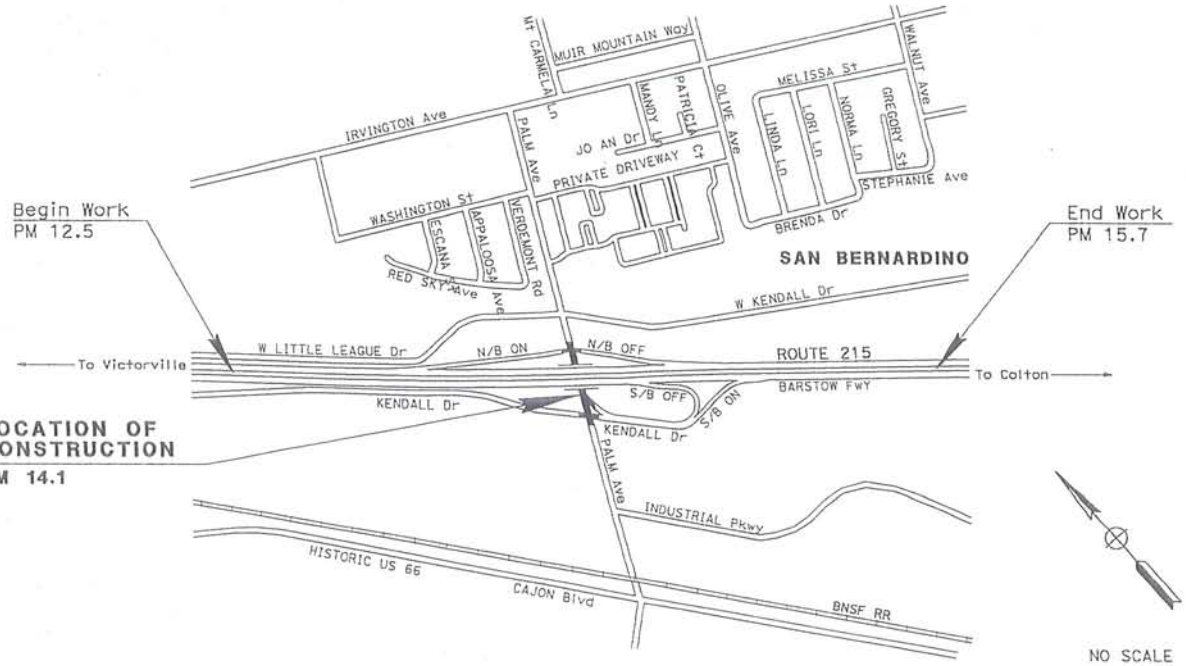
PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN SAN BERNARDINO COUNTY
AT PALM AVENUE/KENDALL DRIVE INTERCHANGE
ON ROUTE 215 SOUTHBOUND AND NORTHBOUND RAMPS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	215	14.1		



NO SCALE

PRELIMINARY

PROJECT ENGINEER
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — No. — Exp. — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CONTRACT No.	08-0M4004
PROJECT ID	0000000000

LAST REVISION 02-09-11 | DATE PLOTTED => 04-APR-2011 | TIME PLOTTED => 13:10

PROJECT MANAGER: MUSTAPHA IAALI

DESIGN ENGINEER: DU LU

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

BORDER LAST REVISED 7/2/2010 | CALTRANS WEB SITE IS: HTTP://WWW.DOT.CA.GOV/ | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s129459 | DGN FILE => 80m4004sb001.dgn | UNIT 2245 | PROJECT NUMBER & PHASE 0800200701

NOTE:

1- FOR CURB RAMP NOTES AND DETAILS NOT SHOWN, SEE STANDARD PLANS RSP A88A AND A88B
2- FOR CURB AND DRIVEWAYS NOTES AND DETAILS NOT SHOWN SEE STANDARD PLANS RSP A87A
3- FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
4- FOR CURB, DIKE, AND C&G TRANSITION SEE CONSTRUCTION DETAILS C-4
5- XXX
6- XXX
7- XXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBD	215	14.1		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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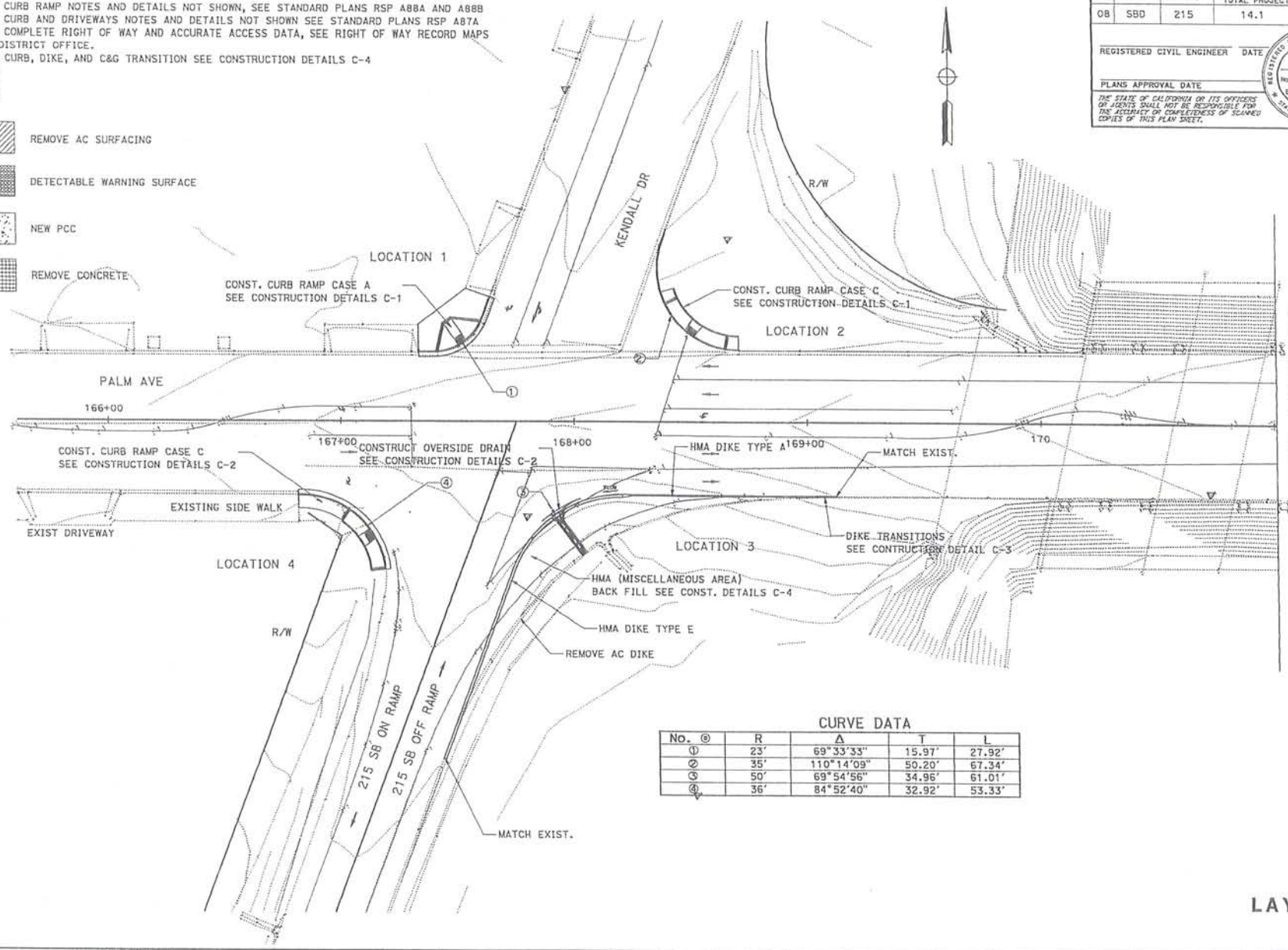
REGISTERED PROFESSIONAL ENGINEER — No. — EXP: CIVIL — STATE OF CALIFORNIA

REMOVE AC SURFACING

DETECTABLE WARNING SURFACE

NEW PCC

REMOVE CONCRETE



CURVE DATA

No. ⑥	R	Δ	T	L
①	23'	69°33'33"	15.97'	27.92'
②	35'	110°14'09"	50.20'	67.34'
③	50'	69°54'56"	34.96'	61.01'
④	36'	84°52'40"	32.92'	53.33'

LAYOUT
L-1

DESIGN | DU LU | CHECKED BY | DU LU | DESIGNED BY | DATE REVISED

Caltrans

RDER LAST REVISED 7/2/2010 | USERNAME => s129459 | DGN FILE => 80M400e0001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE 00000000001

LAST REVISED 00-00-00 | DATE PLOTTED => 14-APR-2011 | TIME PLOTTED => 15:08

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBD	215	14.1		

REGISTERED CIVIL ENGINEER DATE

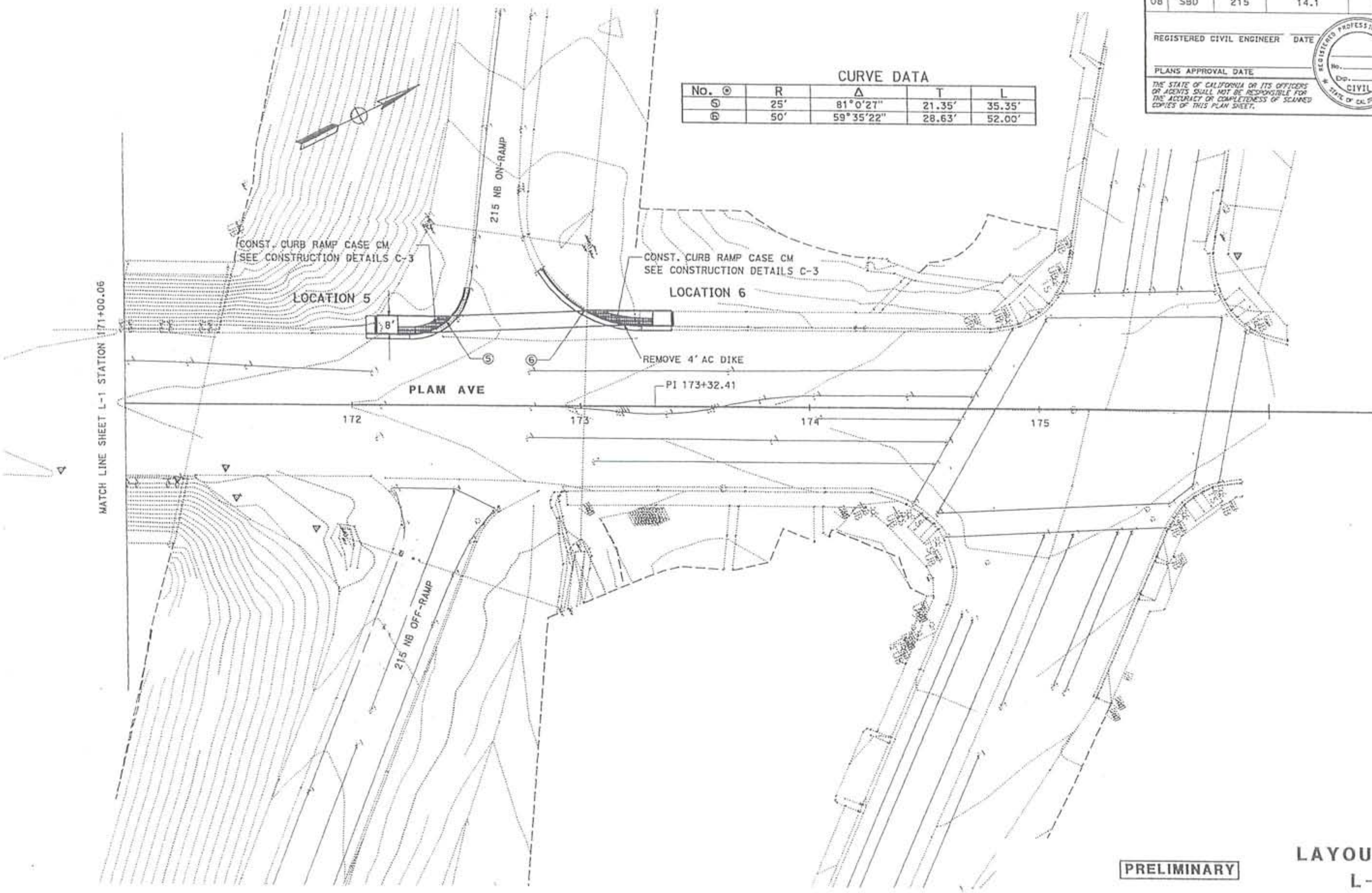
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
CIVIL
STATE OF CALIFORNIA

CURVE DATA

No. ⊙	R	Δ	T	L
⑤	25'	81°0'27"	21.35'	35.35'
⑥	50'	59°35'22"	28.63'	52.00'



PRELIMINARY

LAYOUT
L-2
SCALE: 1" = 20'

DESIGN

Caltrans

DESIGNED BY: DON O NGUYEN
CHECKED BY: DU LU
DU LU
REVISED BY
DATE REVISED

BORDER LAST REVISED 7/2/2010

USERNAME => s129459
DGN FILE => 80M400ec002.dgn

RELATIVE BORDER SCALE IS IN INCHES
0 1 2 3

UNIT 2245

PROJECT NUMBER & PHASE

0800200701

LAST REVISION 04-28-11
DATE PLOTTED => 12-APR-2011
TIME PLOTTED => 09:49